IN THE CLAIMS

Please amend the claims as follows:

1.   (Currently Amended)   An image conversion unit for converting a first image with a first resolution into a second image with a second resolution, the second resolution being higher than the first resolution, the image conversion unit comprising:

    an image converter for converting a first image with a first resolution into an intermediate image with a second resolution, the second resolution being higher than the first resolution;

    a noise adder ~~arranged to add~~for adding noise to the ~~second~~ intermediate image, wherein the said noise comprises spectral components that are in a part of a frequency spectrum that is above the Nyquist frequency of the first image; and

    a spatial enhancement filter for enhancing structures of ~~an~~ said intermediate image which is based on the first image and which has the second resolution,

wherein a combination of said noise adder and said spatial enhancement filter forms said second image.

2.   (Currently Amended)   The image conversion unit as claimed in claim 1, further comprising a noise generator ~~which is arranged to generate~~for generating the noise ~~and that the noise comprises spectral components that are in a part of a frequency spectrum that is above the Nyquist frequency of the first image~~.

3. (Currently Amended)   The image conversion unit as claimed in claim 2, wherein the noise generator ~~is arranged to generate~~generates colored noise.

4. (Currently Amended)   The image conversion unit as claimed in claim 3, wherein the noise generator ~~is arranged to generate~~generates colored noise that comprises further spectral components which are in another part of the frequency spectrum which is below the Nyquist frequency of the first image, the total energy of the spectral components being higher than the total energy of the further spectral components.

5. (Currently Amended)   The image conversion unit as claimed in claim 1, wherein the amount of added noise ~~that is added~~is based on a noise measurement.

6. (Currently Amended)   The image conversion unit as claimed in claim 1, wherein the enhancing performed by the spatial enhancement filter results in the second image having increased perceived sharpness.

7. (Currently Amended)   A method of converting a first image with a first resolution into a second image with a second resolution, the second resolution being higher than the first resolution, the method comprising acts of:

converting a first image with a first resolution into an intermediate image with a second resolution, the second resolution being higher than the first resolution;

adding noise to the ~~second~~ intermediate image, wherein the said noise comprises spectral components that are in a part of a frequency spectrum that is above the Nyquist frequency of the first image~~,~~; and

enhancing structures of ~~an~~ the intermediate image which is based on the first image and which has the second resolution, wherein a combination of said adding noise act and said enhancing structures act forms said second image.

8. (Currently Amended)   An image processing apparatus comprising:

receiving means for receiving a signal corresponding to a first image, said first image having a first resolution;

an image conversion unit for converting the first image into ~~a second~~ an intermediate image having a second resolution greater than said first resolution;

a noise adder for adding~~, wherein the image conversion unit is arranged to add~~ noise to the ~~second~~ intermediate image, said noise ~~comprises~~ comprising spectral components that are in a part of a frequency spectrum that is above the Nyquist frequency of the first image; and

a spatial enhancement filter for enhancing structures of ~~an~~ said noise-added intermediate image which is based on the first

image and which has the second resolution, thereby forming a second image.

9. (Previously Presented) The image processing apparatus as claimed in claim 8, further comprising a display device for displaying the second image.

10. (Previously Presented) The image processing apparatus as claimed in claim 9, wherein the image processing apparatus is a TV.